	Application No. Applicant(s)		
Notice of Allowability	09/520,538	WISE ET AL.	
	Examiner	Art Unit	
	Delia M. Ramirez	1652	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	ears on the cover sheet wi (OR REMAINS) CLOSED in ) or other appropriate communication is s	th the correspondence address on this application. If not included unication will be mailed in due cou	rse. THIS
1. This communication is responsive to <u>3/16/2004</u> .			
2. The allowed claim(s) is/are <u>27-29</u> .			
3. $\boxtimes$ The drawings filed on <u>23 May 2002</u> are accepted by the E	xaminer.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority unanal formula.</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the: <ol> <li>Certified copies of the priority documents have.</li> <li>Certified copies of the priority documents have.</li> <li>Copies of the certified copies of the priority documents.</li> </ol> </li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applicatio	on No	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the require	ements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			CE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) $\square$ including changes required by the Notice of Draftsper	son's Patent Drawing Reviev	v ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	<u>.</u>		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet, Replacement sheet(s) should be labeled as such in			ck) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit	6. Interview Si Paper No./ 08), 7. Examiner's	formal Patent Application (PTO-15 ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowar	
of Biological Material	9. Other		

Application/Control Number: 09/520,538

Art Unit: 1652

## **DETAILED ACTION**

## Status of the Application

Claims 27-29 are pending.

Amendment of claims 27-28 in a communication filed on 3/16/2004 is acknowledged.

## Reasons for Allowance

The following is an Examiner's statement of reasons for allowance. Although the prior art 1. discloses a method for generating a Pseudomonas DmpR effector specificity mutant by chemical mutagenesis, wherein said mutant has a single mutation in the DmpR sensor domain (amino terminal A domain), and wherein said mutant exhibits increased transcriptional activation of a reporter gene in the presence of 4-methylphenol, 3,4-dimethylphenol, 4-ethylphenol, while maintaining a wild-type like response to phenol, 2-methylphenol and 3-methylphenol (Pavel et al., J. Bacteriol. 176(24):7550-7557, 1994; cited in previous Office Actions), the Examiner has found no teaching or suggestion in the prior art directed to a method for enhancing transcriptional activation of a reporter gene under the control of a promoter regulated by a DmpR protein, wherein said protein contains a sensor domain, and wherein said sensor domain is mutated such that the enhancement in transcriptional activation is triggered by the presence of phenol, 2-chlorophenol, 2,4-dichlorophenol, 4-chloro-3-methylphenol, 2,4-dimethylphenol, 4nitrophenol or 2-nitrophenol. Therefore, claims 27-29 directed to (1) a method for enhancing transcriptional activation of a reporter gene under the control of a promoter regulated by a DmpR protein, wherein said DmpR protein contains a sensor domain, in E. coli or Pseudomonas, wherein said sensor domain is mutated via mutagenic PCR such that the enhancement in transcriptional activation occurs in response to the presence of phenol, 2-chlorophenol, 2,4-dichlorophenol, 4-chloro-3-methylphenol, 2,4dimethylphenol, 4-nitrophenol or 2-nitrophenol, (2) the method of (1) wherein the PCR reaction is carried

Application/Control Number: 09/520,538

Art Unit: 1652

out with the primers set forth in SEQ ID NO: 16-17, or (3) the method of 1 wherein the transcriptional

activation is enhanced by at least 4-fold, are allowable over the prior art of record.

2. Claims 27-29 are allowed.

3. Any comments considered necessary by applicant must be submitted no later than the payment of

the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such

submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should 4.

be directed to Delia M. Ramirez whose telephone number is (571) 272-0938. The examiner can normally

be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr.

Ponnathapura Achutamurthy can be reached on (571) 272-0928. Any inquiry of a general nature or

relating to the status of this application or proceeding should be directed to the receptionist whose

telephone number is (703) 308-1234.

Delia M. Ramirez, Ph.D.

Patent Examiner

Art Unit 1652

DR

April 8, 2004

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Page 3